

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Methyl Ethyl
Ketone

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME TRANS MERIDIAN INC./Supplier		EMERGENCY TELEPHONE NO. 415/398-8500 OR
ADDRESS (Number, Street, City, State, and ZIP Code) Transamerica Pyramid, 43rd Fl., San Francisco, CA 94111		714/532-6355
CHEMICAL NAME AND SYNONYMS 2-Butanone		TRADE NAME AND SYNONYMS Methyl Ethyl Ketone, MEK
CHEMICAL FAMILY Ketone	FORMULA CH₃COCH₂CH₃	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Not applicable to high purity chemicals					

SECTION III - PHYSICAL DATA

BOILING POINT (°F) 79.6°C (175.4°F)	SPECIFIC GRAVITY (H ₂ O=1) 0.807 @ 20/20°C (68/68°F)
VAPOR PRESSURE (mm Hg.) 190 mm Hg @ 38°C (100°F)	PERCENT VOLATILE BY VOLUME (%) 100%
VAPOR DENSITY (AIR=1) 2.5	EVAPORATION RATE (N-BU-AC = 1) 5.6
SOLUBILITY IN WATER appreciable (26 wt. %)	
APPEARANCE AND ODOR Clear, colorless liquid, lacquer thinner type	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Tag closed cup -6°C (21°F)	FLAMMABLE LIMITS at 25°C (77°F)	Lel 1.8	Uel 10.0
EXTINGUISHING MEDIA Dry chemical or alcohol-type foam. Waterspray may be ineffective.			
SPECIAL FIRE FIGHTING PROCEDURES Use waterspray to cool fire-exposed surfaces and to protect personnel.			
Hazardous Products of Combustion: No unusual products of combustion.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Respiratory protection required for fire fighting personnel. Stay upwind, if possible. Cool exposed tanks with water.			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

200 ppm

EFFECTS OF OVEREXPOSURE

Acute: Vapor irritates eyes, nose & throat. Liquid will damage eye tissue.

Cronic: Liquid is irritating to skin, causing dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

If overcome by vapors, remove to fresh air & if breathing stopped, give artificial respiration. Keep individual calm. Call a physician. If skin contact occurs, wash affected parts thoroughly with soap and water; launder clothing before re-use. If eye contact occurs, flush with water for at least 15 minutes and call a physician.

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

Not Applicable

STABLE

X

INCOMPATIBILITY (Materials to avoid) Strong oxidants, caustic, amines, alkanolamines, aldehydes, ammonia, will dissolve some plastics, rubber & coatings, chlorinated compounds.

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Keep public away. Shut off source if possible to do so without hazard. Eliminate sources of ignition. Warn occupants of downwind areas of explosion hazard. Prevent liquid from entering sewers, watercourses or low areas.

WASTE DISPOSAL METHOD

Contain spilled liquid with sand or earth. Dilute contained spill with water.

Recover free liquid by pumping or with a suitable absorbant. Consult a disposal expert and ensure conformity to local regulation.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Use approved respiratory protection such as air-supplied mask if used in enclosed spaces.

VENTILATION

LOCAL EXHAUST

Face velocity 60 fpm in confined space

SPECIAL

MECHANICAL (General)

Explosion-proof ventilation equipment

OTHER

No smoking or open lights

PROTECTIVE GLOVES

Chemically resistant gloves

EYE PROTECTION

Chemical splash goggles or face shield

OTHER PROTECTIVE EQUIPMENT

Usually not needed.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Keep container closed when not in use. Do not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this material may be hazardous when emptied. Emptied containers retain product residues (vapor, liquid, etc.)

OTHER PRECAUTIONS

Observe all Hazard Precautions outlined in this sheet. All handling equipment should be electrically grounded.